

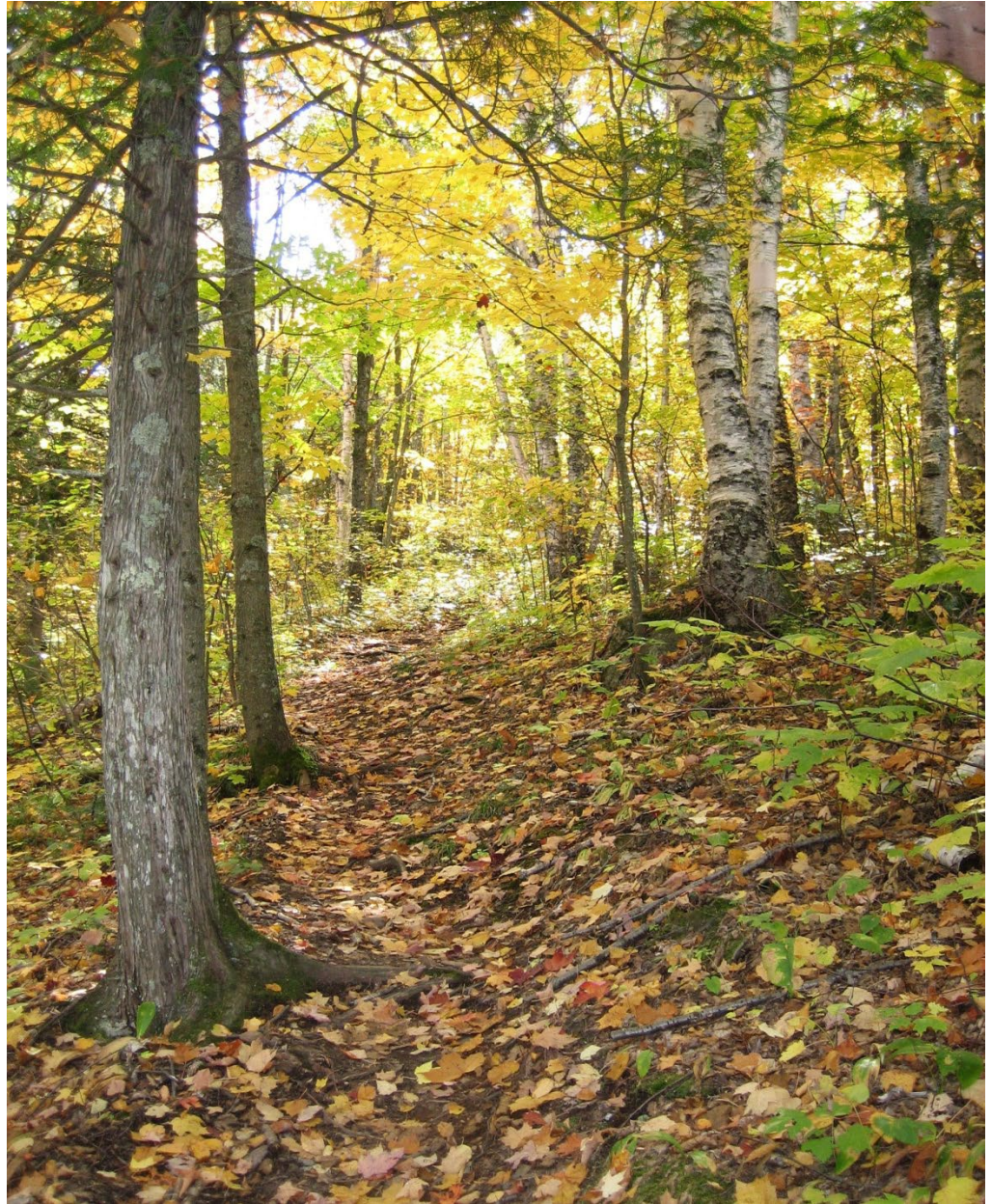


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**St. Louis County  
Land and Minerals  
Department**

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**Timber Operator  
Pre-work  
Training**







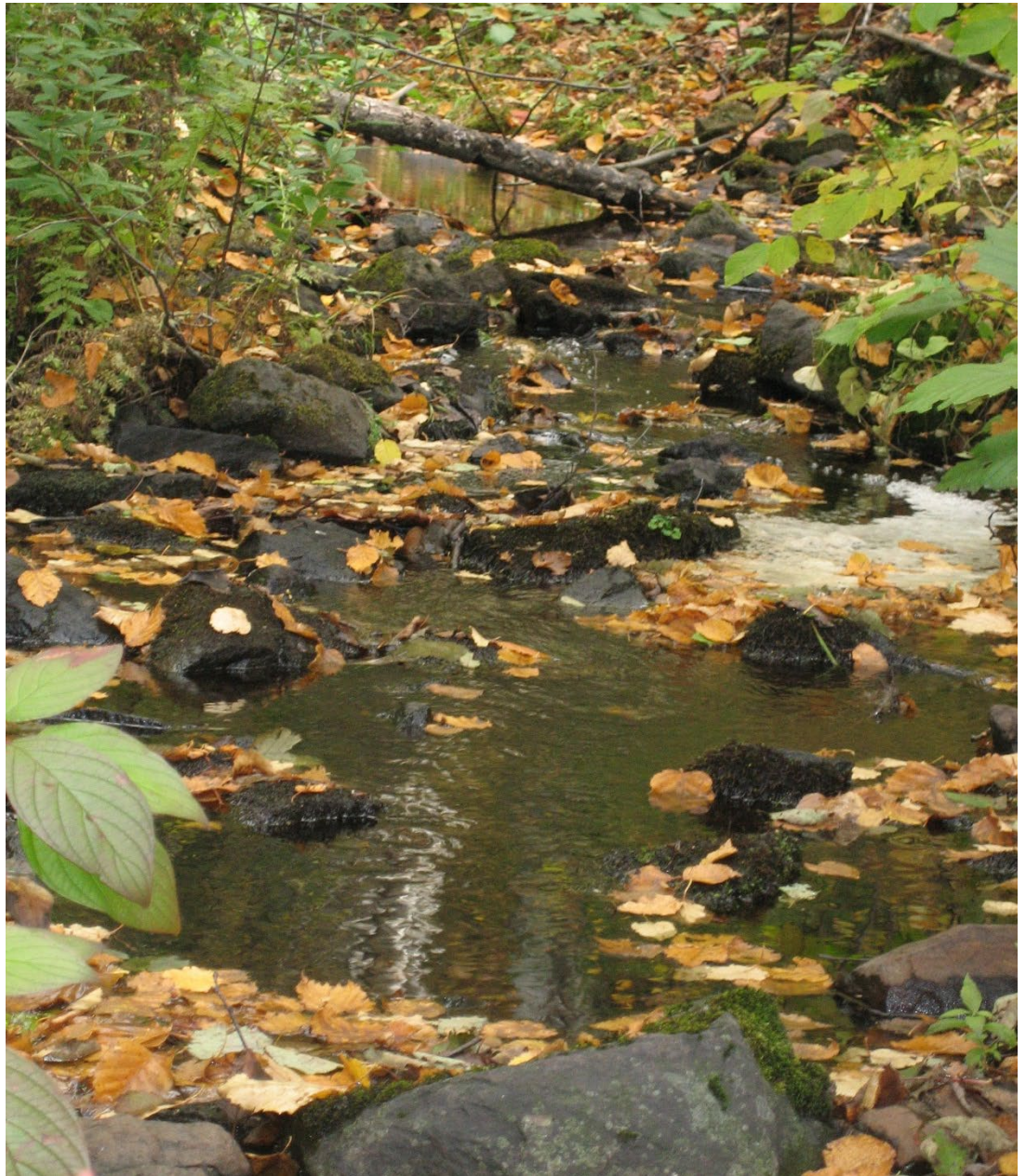
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MINNESOTA

## Land and Minerals Department

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### Timber Operator Pre-work Session

- To move forward - use the keyboard down or right arrows or page down button.
- To move back - use the keyboard up or left arrows or page up button.
- A short test will follow this session.







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## Operator Pre-work Session



### Purpose

The purpose of this training is to ensure that prior to commencing work, operators are informed and aware of:

- The Land and Minerals Department's Guiding Policies
- Minnesota's Forest Management Guidelines
- Any areas of special concern that may apply to activities on state tax forfeited lands



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## Operator Pre-work Session

### Guiding Policies

Land and Minerals Department has Guiding Policies. These are available on the St. Louis County website:

[About Land and Minerals \(stlouiscountymn.gov\)](http://stlouiscountymn.gov)

The policies commit the Land and Minerals Department to:

- Comply with all Laws and Regulations and Minnesota's Forest Management Guidelines
- Continually Improve Performance and
- Prevent Damage to the Environment
- Recognize and Respect Indigenous Peoples







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## **Operator Pre-work Session**



## **Land and Minerals Department 2022 Sustainable Forestry Initiative**

### **Scope of Registration:**

Forestry management activities including planning, harvest, transportation and silviculture on state tax forfeited lands meeting Objective 1-17.

Certification number is BV-SFIS-US016293



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## **Operator Pre-work Session**

## **Land and Minerals Department 2022 Sustainable Forestry Initiative**

The Land and Minerals Department has committed to follow the requirements of the 2022 Sustainable Forestry Initiative (SFI) Forest Management Standard

[Forest Management Standard - forests.org](https://forests.org)

### **These include commitments to:**

- Forest Management Planning
- Forest Health and Productivity
- Protection and Maintenance of Water Resources
- Conservation of Biological Diversity
- Management of Visual Quality and Recreational Benefits
- Protection of Special Sites
- Efficient Use of Fiber Resources
- Recognize and Respect Indigenous Peoples' Rights
- Climate Smart Forestry
- Fire Resilience and Awareness
- Legal and Regulatory Compliance
- Forestry Research, Science and Technology
- Training and Education
- Community Involvement and Landowner Outreach
- Public Land Management Responsibilities
- Communications and Public Reporting
- Management Review and Continual Improvement



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### Legal Requirements and Voluntary Guidelines

The Land and Minerals Department is committed to ensuring that all operations conducted on its lands comply with legal requirements and with **Minnesota's Forest Management Guidelines**.

[Forest Management Guidelines / Minnesota Forest Resources Council \(mn.gov\)](https://www.mn.gov/forestry/forest-management-guidelines)

The guidelines were created through a multi-disciplined committee in 1995 and are periodically revised.

Operators who conduct work activities on state tax forfeited land in St. Louis County shall be in compliance with all applicable laws and regulations.

Every operator shall comply with all contract requirements and directions given from Land and Minerals Department personnel during the course of work on state tax forfeited lands.





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In our inspections and internal and external audits, we will be checking for compliance with applicable laws and regulations, conformity with Minnesota's Forest Management Guidelines, conformity with the 2022 SFI Standards and adherence to the provisions and procedures in Land and Minerals Department contracts.







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# Land and Minerals Department ~ Operator Pre-work Session

## Responsible Operators List

To be eligible to bid on a Land and Minerals Department contract or operate on state tax forfeited lands, the operator must be in good standing on the Responsible Operator List. This applies to all timber harvest operations, road building, forest development projects and gravel operations.

A **Responsible Operator Application Form** , a **Certificate of Compliance with Minnesota Worker's Compensation Law**, and a **Certificate of Liability Insurance** must be on file with the Land and Minerals Department *prior* to commencement of *any* work.

<https://www.stlouiscountymn.gov/departments-a-z/land-minerals/sales-and-contracts/timber-sales>

This application will remain on file for ONE YEAR with the Land and Minerals Department. The application and this training **MUST BE** updated each year and the worker's compensation, and liability insurance must be kept current to remain in good standing with the department.

An application can be obtained at any Land and Minerals Department Office or from the St. Louis County Land and Minerals Website.

## **Return to:**

Land and Minerals Dept  
Pike Lake  
5316 Old Miller Trunk Hwy  
Duluth, MN 55811

OR

Land and Minerals Dept  
Virginia  
7820 MN-135  
Virginia, MN 55792



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## Land and Minerals Department

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## Operator Pre-work Session

### Responsible Operators List – Minimum Requirements

All operators must have the appropriate training, experience and certification to conduct the work activities that are the subject of a contract with the Land and Minerals Department.

Qualifications of operators will be documented on the Responsible Operator Application Form.

**Timber Sale Operators** must have training for at least the owner of the business and one "in woods" person actively responsible for each logging site (in some cases, the business owner may also be the "in woods" person). At a minimum, one of the following is required:

- Master Logger Certification
- Minnesota Logger Education (MLEP) Member in good standing
- "SFI Trained" FISTA member
- Training equivalent to the Minnesota SFI Implementation Committee Training Standard for a trained Professional Logger.





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## Operator Pre-work Session

### Sub-contractors

All sub-contractors MUST be on the Land and Minerals Department Responsible Operator List.

**Responsible Operator Application Form, a Certificate of Compliance with Minnesota Worker's Compensation Law, and a Certificate of Liability Insurance** must be on file with the Land and Minerals Department *prior* to commencement of *any* work.

<http://dev-www.stlouiscountymn.gov/departments-a-z/land-minerals/sales-and-contracts/timber-sales>

### **Return to:**

Land and Minerals Dept	OR	Land and Minerals Dept
Pike Lake		Virginia
5316 Old Miller Trunk Hwy		7820 MN-135
Duluth, MN 55811		Virginia, MN 55792

### Suppliers

Suppliers and truckers who deliver product to you or provide services to you on a state tax forfeited work site must be under your supervision while conducting any activities on the worksite.

You are responsible for ensuring that their activities do not conflict with Land and Minerals Department requirements and for providing direction in the event of any emergency.



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## Land and Minerals Department

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## Operator Pre-work Session

### Threatened and Endangered Species

In our operations you may encounter animals and vegetation that are threatened and/or endangered.

By state and federal law, we are required to protect threatened and endangered species.

- A species is considered **endangered** if the species is threatened with extinction throughout all or a significant portion of its range within Minnesota.
- A species is considered **threatened** if the species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range within Minnesota.

If your operations threaten or impact a listed species **that was not discussed prior to the start of activity**, avoid the area of concern and contact the Contract Administrator *immediately*.





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## Operator Pre-work Session

### Threatened and Endangered Species (continued)

Below are a few examples of Minnesota's listed threatened and endangered species (MN DNR 2013), which could occur in St. Louis County:

#### Threatened

Canadian Lynx (Fed)  
Rams Head Lady Slipper  
Wood Turtle

#### Endangered

Western Jacob's Ladder  
Auricled Twayblade

You can find additional information on threatened and endangered species on the Minnesota DNR website. The website has excellent descriptions and pictures.

[www.dnr.state.mn.us/ets/index.html](http://www.dnr.state.mn.us/ets/index.html)



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### Threatened and Endangered Species (continued)

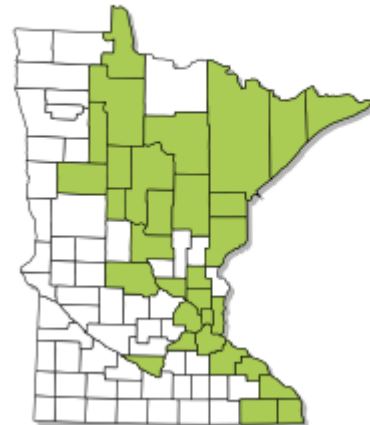
The U.S. Fish and Wildlife Service (USFWS) has classified the northern long-eared bat as endangered under the Endangered Species Act.

We are required to implement conservation measures in accordance with our Incidental Take Permit to ensure forest management can continue without additional consultation with the USFWS.

Requirements include:

- Implement reserve tree and snag retention guidelines
- Protect known occupied maternity roost trees
- Protect known hibernacula entrances

#### Northern Long-eared Bat







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## Operator Pre-work Session

### Threatened and Endangered Species (continued)

How does this affect logging contractors?

- Protect reserve trees identified in the contract.
- Protect snags.
- Don't cross painted boundaries. All known bat roost tree and hibernacula protection areas will be marked with paint.
- If you notice an active bat roost tree, protect it by not harvesting the tree or within 150 feet of the tree and contact the sale administrator.

[Myotis septentrionalis : Northern Long-eared Bat | Rare Species Guide | Minnesota DNR](#)



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## Operator Pre-work Session

### Items Required On-Site by the Land and Minerals Department

- All applicable PERMITS
- Map of work site
- Harvest Provisions (Exhibit B2)
- Spill kit







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Operator Pre-work  
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## Reporting Spills

Please ensure that everyone in your organization that works on state tax forfeited lands understands which spills are reportable.

Reportable spills are:

- 5 gallons or more of any petroleum product to ground
- ANY quantity of chemical or petroleum product to water

How do you know whether you have spilled 5 gallons?

- Check the capacity of the container, reservoir or tank, from which the product spilled, and assess what if anything is left in the container. If the quantity of material lost from the container is close to 5 gallons, report it.
- Examine the size of the area contaminated by the spill. As a rule of thumb, if it is more than an area of 5 feet by 5 feet, you most likely have spilled 5 gallons and you must report it.

For chemicals other than petroleum products, the reportable quantity should be listed on the Safety Data Sheet (SDS). If the SDS does not show the reportable quantity or if you do not know the reportable quantity, report the spill.

**Minnesota Duty Officer – 1-800-422-0798**



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## Operator Pre-work Session

### Spills (continued)

#### STARR

#### Secure – Telephone – Abate – Recover – Remediate

This section concerns procedures for responses to spills, leaks, and accidents that may occur at your site. Per the MN Department of Agriculture (MDA) there are many actions that can be taken before, during, and after an incident to minimize cleanup costs and environmental damage. Controls should be in place to prevent incidents while mixing/loading, rinsing, storing, and disposing of pesticides and fuels.

#### IF YOU HAVE A REPORTABLE SPILL, FOLLOW THE STARR STEPS:

**SECURE** the site. The priority is safety.

**TELEPHONE** a report of incident. You have a legal obligation to immediately report all chemical spills (non-petroleum) no matter how small.

**ABATE** the spill. Take actions such as plugging a leaking container, placing absorbent materials or diking a spill area can and minimize health and safety risks, property damage or environmental damage.

**RECOVER** spilled product. Recover spilled material as quickly as possible by pumping up free liquid, sweeping up absorbent and dry material and place into suitable containers. Spills that soak into the ground may require excavation.

**REMEDiate.** Contaminated media (soil, absorbent, water, sediment, debris, or other contaminated material) are to be stockpiled until thin spreading or landfilling is approved.

**Minnesota Duty Officer – 1-800-422-0798**





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## Operator Pre-work Session

### Spills (continued)

**Logging and Forest Development contractors** (including but not limited to the projects below) must have a spill kit on site at all times during operations. Operations include any work involving heavy, non-vehicular equipment.

- ground herbicide spraying
- aerial herbicide spraying
- disk trenching
- anchor chaining
- salmon blading

The recommended contents of a spill kits are available in the Minnesota Forest Management Guideline Quick Reference Field Guide.

**When in doubt, STARR**  
**Secure – Telephone – Abate – Recover – Remediate**

**Minnesota Duty Officer – 1-800-422-0798**



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## Operator Pre-work Session

### Fuel Management, Lubricants and Other Chemicals

The Land and Minerals Department is committed to ensuring that fuel management and the management of chemicals on its lands complies with legal requirements.

The legal requirements that apply to fuel and chemical tanks, and transportation of said tanks are the MN Department of Transportation Requirements (MN DOT).

[Hazardous Materials - Commercial Vehicle Operations - MnDOT \(state.mn.us\)](https://state.mn.us/mndot/hazardous-materials-commercial-vehicle-operations)





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## **Land and Minerals Department**

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## **Operator Pre-work Session**

### **Fuel Management, Lubricants and Other Chemicals**

#### **For Harvest and select Forest Development Contracts:**

- Review locations for equipment fueling, lubricant and herbicide mixing activities with Contract Administrator.
- Locate fueling, maintenance activities, storage areas and herbicide mixing activities away from open water bodies.
- Check site map and talk to Contract Administrator to ensure fueling, loading, storage areas and herbicide mixing activities are away from areas considered low on the landscape.
- Check site map and talk to Contract Administrator about the location of any filter strips and RMZ's.
- Avoid special conditions or sensitive areas.

**If in doubt, contact the Contract Administrator.**





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**Field Pre-work Session**

The Land and Minerals Department Contract Administrator will conduct a field pre-work session **PRIOR** to the commencement of work. This session may include discussing the project contract, contract provisions, permits, and map(s) with the site operator and any sub-contractors working on the site.

It is the responsibility of the **site operator or contract owner** to ensure any employees or sub-contractors are aware of the project contract, contract provisions, permits, and map(s).





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## Operator Pre-work Session



### Preventing Site Damage (Timber and Forest Development Contracts)

**Soil Disturbance** - Breaking up the duff layer and exposing mineral soil without creating ruts or significant compaction.

**Compaction** - Depression of the soil surface 3 inches or more deep, but without displacement of soil.

**Rutting** - A more drastic disturbance where soil is displaced (in excess of 6 inches), the sides of the tire are in contact with soil and often a wiping action occurs on the side of the rut.

Ruts can cause deep compaction, disrupt water movement through the soil, damage root systems, and create erosion channels



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## **Operator Pre-work Session**

### **Preventing Site Damage - Shut Down Criteria**

(Timber and Forest Development Contracts)

Examples of conditions where Field Operators should either modify operations or request direction from the Contract Administrator include:

- Rutting greater than 6 inches deep in the general harvest area where the operator is unable to move to more stable ground;
- Any time rutting is occurring from a single pass of equipment; or
- Visible compaction of soils in the general harvest area;

Examples of situations where Field Operators and Administrators should have heightened awareness of potential site impacts

- Any precipitation on unfrozen ground;
- Moving to a less stable soil within the sale area;
- Working a cut-to-length project where the slash mat is insufficient; and/or
- Whenever the operator is uncertain about potential impacts to the site

If Operator is unable to modify operations to prevent damage, operator should shut down operations and immediately contact the Sale Administrator.





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### Preventing Site Damage (Timber and Forest Development Contracts)

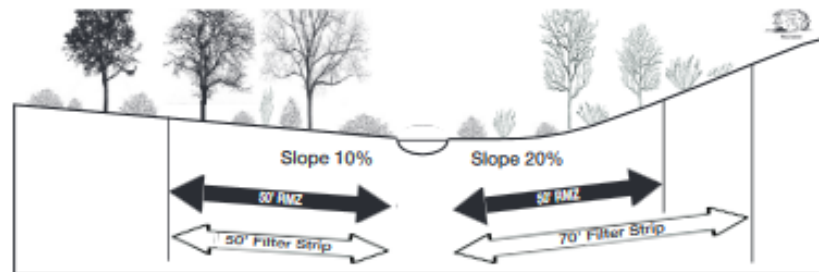
Talk to your Contract Administrator about any RMZs and filter strips found on the project site.

#### **RMZ's**

A Riparian Management Zone (RMZ) is the defined portion of the riparian area adjacent to a stream, lake or open water wetland where RMZ guidelines apply. RMZ area is dependent on the recommended RMZ width which varies according to stream, lake or open water wetland characteristics.

#### **Filter Strip**

A filter strip is the area of land adjacent to a water body that traps sediment before it reaches surface water. Harvesting is permitted in a filter strip as long as the integrity of the filter strip is maintained.



Schematic showing the distinction between RMZs and filter strips. The width of the filter strip and RMZ if present may be the same or different depending on slope and water feature type.

*Diagram from Minnesota's Forest Management Guidelines v2014*



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**Test Your Knowledge**

You will now be asked a series of questions relating to the material in this training module.

Please print out the following page with your selected questions and answers and return them by email or snail mail to one of the options below.

- Your Contract Administrator
- Area Office (Pike Lake or Virginia)
- Main office:

**St. Louis County  
Land and Minerals Department  
320 W. 2<sup>nd</sup> Street  
Suite 302  
Duluth, MN 55802  
[landdept@stlouiscountymn.gov](mailto:landdept@stlouiscountymn.gov)**





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**Timber Pre-work Answer Sheet**

**SELECT THREE QUESTIONS FROM THE FOLLOWING PAGES**

- Print off this page.
- Indicate your questions/answers below.
- RETURN THIS PAGE to your Contract Administrator or Area Office

NAME:

COMPANY:

Question	Answer
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	





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## **Land and Minerals Department**

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## **Operator Pre-work Session TEST**

### **Test Your Knowledge**

- 1) The Land and Minerals Department is certified with:
  - a) Sustainable Forestry Initiative (SFI)
  - b) Forest Stewardship Council (FSC)
  - c) Program for the Endorsement of Forest Certification (PFEC)
  - d) Minnesota Logger Education Program (MLEP)



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### **Test Your Knowledge**

2) Land and Minerals Department's Guiding Policies commits to the following:

- a) Comply with all Laws and Regulations and Minnesota's Forest Management Guidelines
- b) Continually Improve Performance
- c) Prevent Damage to the Environment
- d) Respect Indigenous People Rights
- e) A and C
- F) All of the above



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**Operator Pre-work  
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**Test Your Knowledge**

- 3) To be eligible to operate on state tax forfeited lands in St. Louis County, the operator must be in good standing on the Responsible Operators List, which includes being current at the start of operations with:
- a) Insurance
  - b) Workers Comp
  - c) Updated Responsible Operators form
  - d) MLEP or equivalent training
  - e) A and B only
  - f) All of the above





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**Test Your Knowledge**

4) The application and this Pre-work training **MUST** be updated how often?

- a) Annually
- b) every 2 years
- c) every 3 years
- d) I only have to do it once



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**Test Your Knowledge**

5) There must be a designated on-site person who is to be responsible for the site while being worked.

This individual must meet the minimum qualifications with trainings, certifications and experience required to be on our Responsible Operators List.

a) True

b) False



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**Test Your Knowledge**

6) What constitutes a REPORTABLE SPILL:

- a) Five gallons or more of any petroleum product
- b) ANY spill to water
- c) A and B
- d) None of the above





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Session  
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**Test Your Knowledge**

- 7) What is the requirement for spill kits on a Land and Minerals logging site:
- a) A spill kit on site at all times during operations
  - b) Roll of paper towels and putty plugs
  - c) None – call the MPCA and they'll take care of any spills
  - d) An empty bucket to catch leaking fluid



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## **Operator Pre-work Session TEST**

### **Test Your Knowledge**

- 8) Items required on-site by the Land and Minerals Department are:
- a) All applicable permits
  - b) Map of the work site
  - c) A spill kit on site at all times during operations
  - d) Harvest Provisions (Exhibit B2)
  - e) All of the above



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Session  
TEST**

**Test Your Knowledge**

9) If while operating you notice a very large stick nest with bald eagles nearby, what should you do about it?

- a) Ignore it - it's not your problem
- b) Call the Contract Administrator
- c) Take a coffee break and hope the birds go away
- d) Call the DNR





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## **Operator Pre-work Session TEST**

### **Test Your Knowledge**

10) It is the responsibility of the \_\_\_\_\_ to ensure any employees or sub-contractors are aware and trained on the contract/permit/lease provisions and have a copy of the appropriate map(s)

- a) Site operator, permit or contract owner
- b) Area Manager
- c) The nice county employee at the front desk who filled out your paperwork
- d) Contract Administrator